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ABSTRACT OF THE DISCLOSURE

The present invention reduces the time required for cell search and increase the accuracy of the cell search by determining, during selection of frame boundaries and a scramble code, whether or not the selection results are correct. A mobile station causes descramblers to descramble a received signal with eight scramble codes. Then, correlators calculate the phases of the scramble codes on the basis of frame boundaries, and despreads the signal with a spreading code for a CPICH. The mobile station performs this operation over a plurality of symbols, and causes averaging process sections to average the results. Then, a peak detector selects a scramble code with which an average correlation coefficient is largest. This maximum average correlation coefficient is output to a detection results judging section, which then calculates the ratio of this value to a reference value calculated inside the mobile station, thereby judging detection results.

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